

Refine Search

Search Results -

Terms	Documents
L7 and (extract\$3 or output\$4 or exit\$3)	15

Database:

US Pre-Grant Publication Full-Text Database
 US Patents Full-Text Database
 US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Search:

Search History

DATE: Wednesday, August 25, 2004 [Printable Copy](#) [Create Case](#)

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>		
<u>L8</u>	L7 and (extract\$3 or output\$4 or exit\$3)	15	<u>L8</u>
<u>L7</u>	L5 and (bill\$6 or pay\$6 or fee\$)	15	<u>L7</u>
<u>L6</u>	L5 and (bill\$6 or pay\$6 or fee\$) same specific\$3 same (criteria or characteristic\$3)	0	<u>L6</u>
<u>L5</u>	L4 and (structure or unstructure) same (data or information) same source\$	17	<u>L5</u>
<u>L4</u>	(automatic\$3 or automat\$3 or online or internet) same process\$6 same medical\$3 same record\$3 same (patient or participant)	343	<u>L4</u>
	<i>DB=PGPB; PLUR=YES; OP=ADJ</i>		
<u>L3</u>	(20020048741 or 20020042038)	2	<u>L3</u>
	<i>DB=USPT; PLUR=YES; OP=ADJ</i>		
<u>L2</u>	(6283761 or 5683243 or 5725376 or 6422864).pn.	4	<u>L2</u>
<u>L1</u>	(5882192 or 6315553).pn.	2	<u>L1</u>

Hit List

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[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Search Results - Record(s) 1 through 17 of 17 returned.

☐ 1. Document ID: US 20040117215 A1

Using default format because multiple data bases are involved.

L5: Entry 1 of 17

File: PGPB

Jun 17, 2004

PGPUB-DOCUMENT-NUMBER: 20040117215

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040117215 A1

TITLE: Record system

PUBLICATION-DATE: June 17, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Marchosky, J. Alexander	Chesterfield	MO	US	

US-CL-CURRENT: 705/3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	INOC	Draw. D
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☐ 2. Document ID: US 20040078228 A1

L5: Entry 2 of 17

File: PGPB

Apr 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040078228

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040078228 A1

TITLE: System for monitoring healthcare patient encounter related information

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	INOC	Draw. D
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☐ 3. Document ID: US 20040078220 A1

L5: Entry 3 of 17

File: PGPB

Apr 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040078220

PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040078220 A1

TITLE: System and method for collection, distribution, and use of information in connection with health care delivery

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 4. Document ID: US 20030197744 A1

L5: Entry 4 of 17

File: PGPB

Oct 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030197744
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030197744 A1

TITLE: Zeroclick

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 5. Document ID: US 20030195771 A1

L5: Entry 5 of 17

File: PGPB

Oct 16, 2003

PGPUB-DOCUMENT-NUMBER: 20030195771
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030195771 A1

TITLE: Healthcare financial data and clinical information processing system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 6. Document ID: US 20030191669 A1

L5: Entry 6 of 17

File: PGPB

Oct 9, 2003

PGPUB-DOCUMENT-NUMBER: 20030191669
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030191669 A1

TITLE: System for providing consumer access to healthcare related information

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 7. Document ID: US 20030050803 A1

L5: Entry 7 of 17

File: PGPB

Mar 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030050803
PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030050803 A1

TITLE: Record system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 8. Document ID: US 20030036683 A1

L5: Entry 8 of 17

File: PGPB

Feb 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030036683

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030036683 A1

TITLE: Method, system and computer program product for internet-enabled, patient monitoring system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 9. Document ID: US 20020178271 A1

L5: Entry 9 of 17

File: PGPB

Nov 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020178271

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020178271 A1

TITLE: Dynamic file access control and management

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 10. Document ID: US 20020143533 A1

L5: Entry 10 of 17

File: PGPB

Oct 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020143533

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020143533 A1

TITLE: Method and apparatus for voice dictation and document production

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 11. Document ID: US 20020046346 A1

L5: Entry 11 of 17

File: PGPB

Apr 18, 2002

PGPUB-DOCUMENT-NUMBER: 20020046346

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020046346 A1

TITLE: Electronic medical records system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn De
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☐ 12. Document ID: US 20020029157 A1

L5: Entry 12 of 17

File: PGPB

Mar 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020029157

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020029157 A1

TITLE: Patient - controlled automated medical record, diagnosis, and treatment system and method

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn De
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☐ 13. Document ID: US 6779119 B1

L5: Entry 13 of 17

File: USPT

Aug 17, 2004

US-PAT-NO: 6779119

DOCUMENT-IDENTIFIER: US 6779119 B1

TITLE: Actual and perceived response time, user interface, and security via usage patterns

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn De
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☐ 14. Document ID: US 6411840 B1

L5: Entry 14 of 17

File: USPT

Jun 25, 2002

US-PAT-NO: 6411840

DOCUMENT-IDENTIFIER: US 6411840 B1

**** See image for Certificate of Correction ****

TITLE: Automated collection and analysis patient care system and method for diagnosing and monitoring the outcomes of atrial fibrillation

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn De
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☐ 15. Document ID: US 6347329 B1

L5: Entry 15 of 17

File: USPT

Feb 12, 2002

US-PAT-NO: 6347329

DOCUMENT-IDENTIFIER: US 6347329 B1

TITLE: Electronic medical records system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Abstracts	Claims	KWIC	Draw. De
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☐ 16. Document ID: US 5924074 A

L5: Entry 16 of 17

File: USPT

Jul 13, 1999

US-PAT-NO: 5924074

DOCUMENT-IDENTIFIER: US 5924074 A

TITLE: Electronic medical records system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Abstracts	Claims	KWIC	Draw. De
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☐ 17. Document ID: US 3832135 A

L5: Entry 17 of 17

File: USOC

Aug 27, 1974

US-PAT-NO: 3832135

DOCUMENT-IDENTIFIER: US 3832135 A

TITLE: AUTOMATIC CLINICAL ANALYZER

DATE-ISSUED: August 27, 1974

INVENTOR-NAME: CHLUPSA J; MASSAGLIA I ; CONNOLLY P ; DROZDOWSKI R

US-CL-CURRENT: 436/47, 141/130, 422/65, 436/49, 702/25, 73/864.25, 73/864.91

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Abstracts	Claims	KWIC	Draw. De
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Terms	Documents
L4 and (structure or unstructure) same (data or information) same source\$	17

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File: PGPB

Jun 17, 2004

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PUBLICATION-DATE: June 17, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Marchosky, J. Alexander	Chesterfield	MO	US	

US-CL-CURRENT: 705/3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
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☐ 2. Document ID: US 20040078228 A1

L5: Entry 2 of 17

File: PGPB

Apr 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040078228

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040078228 A1

TITLE: System for monitoring healthcare patient encounter related information

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
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☐ 3. Document ID: US 20040078220 A1

L5: Entry 3 of 17

File: PGPB

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☐ 4. Document ID: US 20030197744 A1

L5: Entry 4 of 17

File: PGPB

Oct 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030197744
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030197744 A1

TITLE: Zeroclick

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☐ 5. Document ID: US 20030195771 A1

L5: Entry 5 of 17

File: PGPB

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PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030050803 A1

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☐ 8. Document ID: US 20030036683 A1

L5: Entry 8 of 17

File: PGPB

Feb 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030036683

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030036683 A1

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☐ 9. Document ID: US 20020178271 A1

L5: Entry 9 of 17

File: PGPB

Nov 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020178271

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020178271 A1

TITLE: Dynamic file access control and management

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 10. Document ID: US 20020143533 A1

L5: Entry 10 of 17

File: PGPB

Oct 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020143533

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020143533 A1

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Apr 18, 2002

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PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020046346 A1

TITLE: Electronic medical records system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn D
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☐ 12. Document ID: US 20020029157 A1

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File: PGPB

Mar 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020029157

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020029157 A1

TITLE: Patient - controlled automated medical record, diagnosis, and treatment system and method

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn D
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☐ 13. Document ID: US 6779119 B1

L5: Entry 13 of 17

File: USPT

Aug 17, 2004

US-PAT-NO: 6779119

DOCUMENT-IDENTIFIER: US 6779119 B1

TITLE: Actual and perceived response time, user interface, and security via usage patterns

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn D
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☐ 14. Document ID: US 6411840 B1

L5: Entry 14 of 17

File: USPT

Jun 25, 2002

US-PAT-NO: 6411840

DOCUMENT-IDENTIFIER: US 6411840 B1

**** See image for Certificate of Correction ****

TITLE: Automated collection and analysis patient care system and method for diagnosing and monitoring the outcomes of atrial fibrillation

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn D
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☐ 15. Document ID: US 6347329 B1

L5: Entry 15 of 17

File: USPT

Feb 12, 2002

US-PAT-NO: 6347329

DOCUMENT-IDENTIFIER: US 6347329 B1

TITLE: Electronic medical records system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Abstract	Claims	KWIC	Draw. De
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☐ 16. Document ID: US 5924074 A

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File: USPT

Jul 13, 1999

US-PAT-NO: 5924074

DOCUMENT-IDENTIFIER: US 5924074 A

TITLE: Electronic medical records system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Abstract	Claims	KWIC	Draw. De
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DATE-ISSUED: August 27, 1974

INVENTOR-NAME: CHLUPSA J; MASSAGLIA I ; CONNOLLY P ; DROZDOWSKI R

US-CL-CURRENT: 436/47, 141/130, 422/65, 436/49, 702/25, 73/864.25, 73/864.91

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Generate Collection

Print

L7: Entry 14 of 15

File: USPT

Feb 12, 2002

DOCUMENT-IDENTIFIER: US 6347329 B1
TITLE: Electronic medical records system

Brief Summary Text (5):

Healthcare providers, such as physicians, create large volumes of patient information during the course of their business at healthcare facilities, such as hospitals, clinics, laboratories and medical offices. For example, when a patient visits a physician for the first time, the physician generally creates a patient file including the patient's medical history, current treatments, medications, insurance and other pertinent information. This file generally includes the results of patient visits, including laboratory test results, the physician's diagnosis, medications prescribed and treatments administered. During the course of the patient relationship, the physician supplements the file to update the patient's medical history. When the physician refers a patient for treatment, tests or consultation, the referred physician, hospital, clinic or laboratory typically creates and updates similar files for the patient. These files may also include the patient's billing, payment and scheduling records.

Brief Summary Text (6):

Healthcare providers can use electronic data processing to automate the creation, use and maintenance of their patient records. For example, in U.S. Pat. No. 5,277,188, assigned to New England Medical Center Hospitals, Inc., Selker discloses a clinical information reporting system having an electronic database including electrocardiograph related patient data. Similarly, Schneiderman discloses a computer system for recording electrocardiograph and/or chest x-ray test results for a database of patients in U.S. Pat. No. 5,099,424. In U.S. Pat. No. 4,315,309, Coli discloses a patient report generating system for receiving, storing and reporting medical test data for a patient population. Mitchell, in U.S. Pat. No. 3,872,448, likewise discloses a system for automatically handling and processing hospital data, such as patient information and pathological test information using a central processing apparatus. In U.S. Pat. No. 5,065,315, Garcia discloses a computerized scheduling and reporting system for managing information pertinent to a patient's stay in the hospital. However, these electronic data processing systems can not handle patient data in the wide variety of data formats typically produced by healthcare providers, such as physicians, laboratories, clinics and hospitals.

Detailed Description Text (15):

With reference to FIG. 13, upon creation of a patient record, the patient locator 200 creates a patient data structure 210 having the PID and the patient's name. In a preferred embodiment, the patient data structure 210 includes pointers to data structures having data within a patient record captured by the point of care system 100 and incorporated from external sources (e.g., a digital x-ray image file stored in a raster pixel format). Thus, the patient data structure 210 maintains a pointer to an interface files structure 211 having patient data transmitted from external sources. The patient data structure 210 likewise maintains pointers to a clinical data structure 212, a progress note structure 213 and an encounter data structure 214. These data structures include patient data captured by the clinical data capture 142, progress notes 144 and encounter data capture 146, respectively (FIG. 4). In another preferred embodiment, the patient data structure 210 may include pointers to data structures having data generated by the reference database 104 and

transferred by the legacy data system 106. Thus, the patient data structure 210 may maintain pointers to a medication data structure 215 and a guideline data structure 216. As described above, the medication 215 and guideline 216 data structures include patient data captured by the medication data capture 148 and the practice guideline 149, respectively. In this embodiment, a reference data structure 217 may maintain pointers to the encounter data structure 214 and to the medication data structure 215 for access to reference information contained in a reference database 104. Lastly, the patient data structure 210 may maintain a pointer to a legacy files structure 219 having patient data transmitted from the legacy data system 106, such as an image of a patient chart.

Detailed Description Text (16):

FIG. 14 shows a logical view of a patient record 220 corresponding to the structure illustrated in FIG. 13. The patient record 220 includes the PID generated by the patient locator 200 (FIG. 12) in the patient data repository 102 (FIG. 1). In addition, the patient record 220 includes patient data in a variety of data types generated by healthcare providers. Thus, the patient record includes text data 223, such as electronic mail and word processing documents from other healthcare providers, image data 225, such as scanned physical documents, x-rays and CATSCANS, and audio data 227, such as a physician's dictation and voice mail. Lastly, the patient record 220 has data tables 229, such as a physician's ICD9 diagnosis codes and CPT procedure codes. In view of the structure of a patient record 220, referring back to FIG. 12, the data manager 202 uses the PID to store and retrieve patient records. Moreover, the data interface 204 permits communication with external sources to obtain patient data, such as demographic data, laboratory test results and x-ray images, and to transfer patient information, such as prescriptions for medication, from the patient data repository 102 to external healthcare providers.

Detailed Description Text (28):

Referring now to FIG. 23, a block diagram illustrates the structure of the optional legacy data system 106 as shown in FIG. 1. The legacy data system 106 includes a data source 370 and a converter 372. The data source 370 comprises physical data 374, such as paper based records and photographs, and electronic mainframe data 376. The converter 372 receives information from the data source 370 and transforms the information into an electronic format compatible with the EMR system. For example, to input physical data 374, such as paper or image based data, into a patient record, the converter 372 comprises a scanner to digitize the physical data into a binary file format for incorporation into the patient's record. To input electronic mainframe data 376, the converter 372 employs the same mechanism used for transfer or receipt of patient data from external sources. As described before, the converter 372 determines if an interface exists for the mainframe data, selects the appropriate data handler and converts the data into the proper format for incorporation into a patient record.

Detailed Description Text (38):

In addition, the present invention is useful in legal, manufacturing and general administration environments. For example, the present invention is capable of organizing, maintaining and protecting legal files in an attorney's office. Thus, the EMR system can store and retrieve scanned images of paper documents, such as deeds and assignments, as well as other native file formats, such as word processing files. The EMR system organizes and retrieves this data in a manner akin to that of a patient's medical record. Upon entry of a client data into the EMR system, attorneys can annotate documents, transfer information to and from other systems, or create new data for automatic filing in the client or case file. Similarly, the EMR system is useful for management of procurement or regulatory data in a manufacturing context. Thus, the EMR system can organize and maintain material safety data sheets (MSDS) as well as other data pertinent to materials procurement, such as conformance to specification measurements and inspection data for received lots, in a manufacturing environment. Lastly, the EMR system is useful

for general administrative files in any organization. For example, the present invention is applicable to employee files in human resources, customer files in sales and approved suppliers in procurement. The EMR system can organize and retrieve data within these files in the manner as patient data in a patient data record. As discussed above, upon entry of a data into the EMR system, users can annotate documents, transfer information to and from other systems, or create new data for automatic filing in the respective file.

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US006347329B1

(12) **United States Patent**
Evans

(10) Patent No.: **US 6,347,329 B1**
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(54) **ELECTRONIC MEDICAL RECORDS SYSTEM**

5,277,188 A 1/1994 Selker
5,416,695 A 5/1995 Stutman et al.
5,659,741 A 8/1997 Eberhardt

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OTHER PUBLICATIONS

(73) Assignee: Macneal Memorial Hospital Assoc., Berwyn, IL (US)

Declaration of Hollon H. Bridges, Jr., dated Sep. 24, 1996.
Declaration of Jae A. Evans, dated Sep. 27, 1996.
Declaration of Marion Neal, dated Sep. 26, 1996.
Declaration of David Printz, dated Sep. 26, 1996.
Kleinholz, et al. "Supporting Cooperative Medicine: The Bermed Project," IEEE MultiMedia, vol. 1, No. 4, Dec. 21, 1994, pp. 44-53.

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

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(57) **ABSTRACT**

Related U.S. Application Data

(63) Continuation of application No. 09/333,170, filed on Jun. 14, 1999, which is a continuation of application No. 08/721,182, filed on Sep. 27, 1996.

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(52) U.S. Cl. 709/202; 709/205; 345/326; 705/2; 705/3

(58) Field of Search 709/202, 205, 709/217; 345/326; 705/2, 3

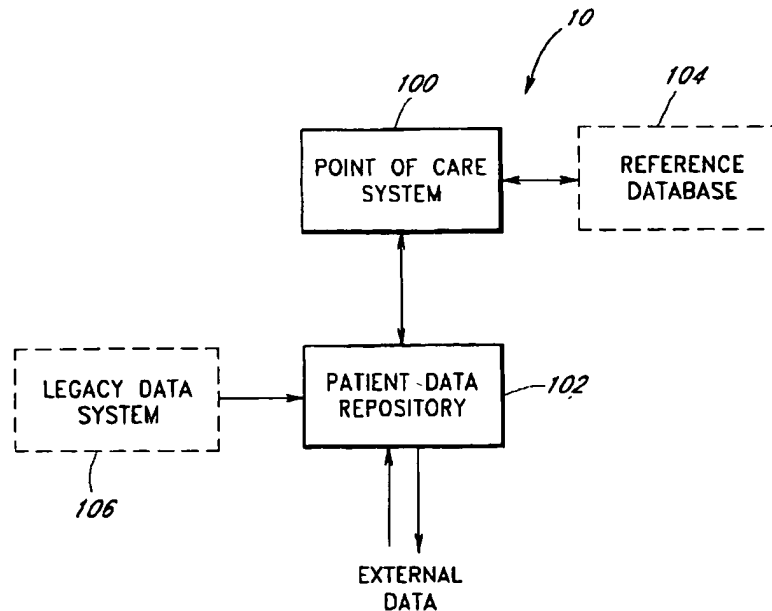
(56) **References Cited**

U.S. PATENT DOCUMENTS

3,872,448 A 3/1975 Baker
4,315,309 A 2/1982 Coli
5,065,315 A 11/1991 Garcia
5,099,424 A 3/1992 Schneiderman

A medical records system that creates and maintains all patient data electronically. The system captures patient data, such as patient complaints, lab orders, medications, diagnoses, and procedures, at its source at the time of entry using a graphical user interface having touch screens. Using pen-based portable computers with wireless connections to a computer network, authorized healthcare providers can access, analyze, update and electronically annotate patient data even while other providers are using the same patient record. The system likewise permits instant, sophisticated analysis of patient data to identify relationships among the data considered. Moreover, the system includes the capability to access reference databases for consultation regarding allergies, medication interactions and practice guidelines. The system also includes the capability to incorporate legacy data, such as paper files and mainframe data, for a patient.

1 Claim, 26 Drawing Sheets



END OF SEARCH HISTORY